CLAIMS

What is claimed is:

1   1.   A computer readable medium having instructions for determining if
2   a print job designated time sensitive has expired following a triggering event
3   and purging the print job from a memory upon determining the print job has
4   expired.

1   2.   The medium of Claim 1, wherein the print job designated time
2   sensitive includes expiration data and wherein the instructions for purging the
3   print job from a memory upon determining the print job has expired include
4   instructions for:
5   detecting a triggering event;
6   comparing a time elapsed following the triggering event with a duration
7   specified by the expiration data; and
8   purging the print job if the time elapsed exceeds the duration specified by
9   the expiration data.
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1   3.   The medium of Claim 2, wherein the instructions for detecting a
2   triggering event include instructions for detecting a malfunction.

1   4.   The medium of Claim 2, wherein the instructions for detecting a
2   triggering event include instructions for detecting the placement of the print job
3   in the memory.

1   5.   A computer readable medium having instructions for:
2   determining if a print job stored in a memory has been designated time
3   sensitive following a triggering event; and

4   if the print job has been designated time sensitive, obtaining expiration

5 data for the print job, and, if the print job has expired according to the expiration

6 data, purging the print job from the memory.

1   6.   The medium of Claim 5 having further instructions for detecting a

2 triggering event and comparing a time elapsed following the triggering event

3 with a duration specified by the expiration data to determine if the print job has

4 expired.

1   7.   The medium of Claim 5, wherein the memory is a printer memory

2 and wherein:

3   the instructions for obtaining expiration data include instructions for

4 obtaining expiration data relating to a duration that the print job is to be held in

5 the printer memory; and

6   the instructions for purging include instructions for purging the print job

7 from the printer memory.

1   8.   The medium of Claim 5, wherein the memory is a queue and

2 wherein:

3   the instructions for obtaining expiration data include instructions for

4 obtaining expiration data relating to a duration that the print job is to be held in

5 the queue; and

6   the instructions for purging include instructions for purging the print job

7 from the queue.

1   9.   A computer readable medium having instructions for:

2   receiving instructions from an application to print an electronic document;

3   translating the instructions into a print job;

4   presenting a user interface having user accessible controls for designating

5 the print job as time sensitive and for specifying expiration data; and

6   if so selected through the interface, designating the print job as time

7   sensitive and including expiration data with the print job.

1   10.   The medium of Claim 9, wherein the instructions for presenting

2   include instructions for presenting a user interface having user accessible

3   controls for designating the print job as time sensitive and for specifying

4   expiration data relating to a first duration for holding the print job in printer

5   memory and a second duration for holding the print job in a queue.

1   11.   A computer readable medium having instructions for:

2   identifying a malfunction that prevents a print job stored in a memory

3   from being printed;

4   upon identifying the malfunction, determining if the print job has expired;

5   and

6   if expired, purging the print job from the memory.

1   12.   The medium of claim 11 having further instructions for determining

2   if the print job has been designated as a time sensitive, and wherein the

3   instructions for purging include instructions for purging the print job only if it has

4   been designated as a time sensitive print job.

1   13.   The medium of claim 11 wherein the memory is a queue and

2   wherein the instructions for purging include instructions for purging the print job

3   from the queue.

1   14.   The medium of claim 11 wherein the memory is a printer memory

2   and wherein the instructions for purging include instructions for purging the print

3   job from the printer memory.

1   15.   The medium of Claim 11 having further instructions for notifying a

2   user if the print job has been purged.

1   16.   A method for purging a print job, comprising determining if a print

2   job designated as time sensitive has expired following a triggering event and

3   purging the print job from a memory upon determining the print job has expired.

1   17.   The method of Claim 16, wherein the print job designated time

2   sensitive includes expiration data and wherein purging the print job from a

3   memory upon determining the print job has expired comprises:

4   detecting a triggering event;

5   comparing a time elapsed following the triggering event with a duration

6   specified by the expiration data; and

7   purging the print job if the time elapsed exceeds the duration specified by

8   the expiration data.

1   18.   The method of Claim 17, wherein detecting a triggering event

2   comprises detecting a malfunction.

1   19.   The method of Claim 17, wherein detecting a triggering event

2   comprises detecting the placement of the print job in the memory.

1   20.   A method for purging a print job, comprising:

2   determining if a print job stored in a memory has been designated time

3   sensitive;

4   if the print job has been designated time sensitive and a triggering event

5   has occurred, obtaining expiration data associated with the print job,

6   determining if the print job has expired, and, if the print job has expired

7   according to the expiration data, purging the print job from the memory.

1   21.   The method of Claim 20, further comprising detecting a triggering
2   event and comparing a time elapsed following the triggering event with a
3   duration specified by the expiration data to determine if the print job has
4   expired.

1   22.   The method of Claim 20, wherein the memory is a printer memory
2   and wherein:
3   obtaining expiration data comprises obtaining expiration data relating to a
4   duration that the print job is to be held in the printer memory; and
5   purging comprises purging the print job from the printer memory.

1   23.   The method of Claim 20, wherein the memory is a queue and
2   wherein:
3   obtaining expiration data comprises obtaining expiration data relating to a
4   duration that the print job is to be held in the queue; and
5   purging comprise purging the print job from the queue.

1   24.   A method for designating a print job as time sensitive, comprising:
2   receiving instructions from an application to print an electronic document;
3   translating the instructions into a print job;
4   presenting a user interface having user accessible controls for designating
5   the print job as time sensitive and for specifying expiration data; and
6   if so selected through the interface, designating the print job as time
7   sensitive and including expiration data with the print job.

1   25.   The method of Claim 24, wherein presenting comprises presenting
2   a user interface having user accessible controls for designating the print job as
3   time sensitive and for specifying expiration data relating to a first duration for
4   holding the print job in printer memory and a second duration for holding the
5   print job in a queue.

1   26.   A method for purging a print job, comprising:

2   identifying a printer malfunction that prevents a print job stored in a

3   memory from being printed;

4   upon identifying the malfunction, determining if the stored print job has

5   expired; and

6   if expired, purging the print job from the memory.

1   27.   The method of claim 26 further comprises:

2   determining if the print job has been designated as time sensitive; and

3   purging the print job only if it has been designated as a time sensitive

4   print job.

1   28.   The method of claim 26 wherein the memory is a queue, and

2   wherein purging the print job includes purging the print job from the queue.

1   29.   The method of claim 26, wherein the memory is a printer memory,

2   and wherein purging the expired print job includes purging the expired print job

3   from the printer memory.

1   30.   The method of claim 26, further comprising notifying a user that

2   the print job has been purged.

1   31.   A method for purging a print job, comprising:

2   designating the print job as a time sensitive print job;

3   queuing the time sensitive print job;

4   detecting a malfunction that prevents the time sensitive print job from

5   being printed; and

6   purging the time sensitive print job if the malfunction is not remedied

7   within a set time.

1 32. The method of Claim 31, further comprising:

2 sending the queued time sensitive print job to a printer memory;

3 detecting a malfunction that prevents the time sensitive print job in the

4 printer memory from being printed; and

5 purging the printer memory of the time sensitive print job if the

6 malfunction is not remedied within a set time.

1 33. The method of claim 31, further comprising notifying a user if the

2 print job has been purged.

1 34. The method of Claim 31, further comprising associating expiration

2 data with the time sensitive print job, and after detecting the malfunction using

3 the expiration data to determine if the time sensitive print job has expired, and

4 wherein purging comprises purging the time sensitive print job only if it has

5 expired.

1 35. A system for printing, comprising:

2 an application capable of instructing an electronic document to be printed;

3 and

4 a driver capable of translating printing instructions from an application

5 into a print job and of allowing a user to designate the print job as time sensitive

6 and to specify expiration data for the print job.

1 36. A print server, comprising:

2 a queue for temporarily holding a print job; and

3 a queue manager capable of determining if the print job held in the queue

4 is time sensitive, and, if time sensitive, determining if the print job has expired,

5 and purging the print job from the queue if the time sensitive print job has

6 expired.

1   37.   The print server of Claim 36, wherein the print job is time sensitive

2   and includes expiration data and wherein the queue manager is operable to

3   determine if the print job has expired by:

4   detecting a triggering event; and

5   comparing a time elapsed following the triggering event with a duration

6   specified by the expiration data.

1   38.   The server of Claim 37 wherein the triggering event is a

2   malfunction.

1   39.   The server of Claim 37 wherein the triggering event is a placement

2   of the print job in the queue.

1   40.   An image forming device, comprising:

2   a print engine capable of printing information on print media;

3   a memory manager capable of storing a print job in a memory, routing the

4   print job from the memory to the print engine, and purging the print job from the

5   memory; and

6   a recovery feature capable of identifying whether the print job held in the

7   memory is time sensitive, and, if time sensitive and if a triggering event has

8   occurred, determining if the print job has expired, and instructing the memory

9   manager to purge the print job from the memory if the time sensitive print job

10   has expired.

1   41.   The device of Claim 40, wherein the print job is time sensitive and

2   includes expiration data and wherein the recovery feature is operable to

3   determine if the print job has expired by:

4   detecting a triggering event; and

5   comparing a time elapsed following the triggering event with a duration

6   specified by the expiration data.

1   42.   The device of Claim 41 wherein the triggering event is a
2   malfunction.

1   43.   An image forming device, comprising:
2   a memory for storing a print job;
3   a print engine capable of printing information on print media;
4   a memory manager capable of storing the print job in the memory, routing
5   the print job from the memory to the print engine, and purging the print job from
6   the memory; and
7   a recovery feature capable of identifying a printer malfunction, identifying
8   whether the print job held in the memory is time sensitive, and, if time sensitive,
9   instructing the memory manager to purge the print job from the memory if the
10 time sensitive print job expires before the malfunction is remedied.

1   44.   A printer driver, comprising:
2   a means for receiving instructions from an application to print an
3   electronic document;
4   a means for translating the instructions into a print job;
5   a means for presenting a user interface having user accessible controls for
6   designating the print job as time sensitive and for specifying expiration data; and
7   a means for designating the print job as time sensitive and including
8   expiration data with the print job if so selected through the interface.

1   45.   A system for purging a print job, comprising:
2   a means for storing the print job in memory;
3   a means for identifying a printer malfunction that prevents the stored
4   print job from being printed;
5   a means for determining, upon identifying the malfunction, if the stored
6   print job has expired; and
7   a means for purging the print job, if expired, from memory.

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